MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

Commercial Innovations, Inc.
9105 Way Ave.
Cleveland, OH 44105-2197

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Commercial Innovations Modified Bitumen Roof System Over Cementitious Wood Fiber Deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA renews NOA No. 11-0725.02 and consists of pages 1 through 7.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Modified Bitumen
Material:	SBS/SIS/SEBS
Deck Type:	Cementitious Wood Fiber
Maximum Design Pressure:	-45 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
Viking AB II	36” x 108’	ASTM D 4601, Type II	Type II, asphalt coated fiberglass base sheet.
Viking Poly Shield	40” x 324’	ASTM D 5726	Polyester felt for use in conventional and modified bitumen built-up roof systems.
Viking TG IV	36" x 180'	ASTM D 4990, Type I	Coal Tar impregnated glass felt for use in conventional and modified bitumen built-up systems.
Viking TG VI	36" x 180'	ASTM D 4990, Type I	Coal Tar impregnated glass felt for use in conventional and modified bitumen built-up systems.
Viking AOB	36” x 72’	ASTM D 2626	Asphalt coated organic base sheet.
Viking Walk Pads	24” x 36”	Proprietary	Rubber walking pad.
Viking AB Mastic	5 gallon	ASTM D 4586	Trowel grade, asphalt based roofing mastic for use in repair and patching against leaks in built-up asphalt roofs.
Viking TB Mastic	5 gallon	ASTM D 5643	Trowel grade tar based roofing mastic for use in repair and patching.
Viking Sun Shield Fibered	5, 55 gallon	ASTM D 2824, Type III	High solids, aluminized roof coating.
Viking CTP	70 lb. keg	Proprietary	Polymer modified coal tar pitch.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
ACFoam Composite	Composite polyisocyanurate insulation board	Atlas Energy Products
High Density Wood Fiberboard	Wood fiber insulation board	Generic
DensDeck, DensDeck Prime	Water resistant gypsum board	G-P Gypsum Corp.
H-Shield	Polyisocyanurate foam insulation	Hunter Panels, Inc.
Fesco Foam	Composite Insulation board	Johns Manville
ENRGY-3, PSI-25	Polyisocyanurate foam insulation	Johns Manville
Multi-Max FA-3	Polyisocyanurate foam insulation	RMax
Structodek High Density Fiberboard Roof Insulation	High Density wood fiber insulation board	Blue Ridge Fiberboard
Retro-Fit	Perlite insulation board	Johns Manville
Fesco Board	Expanded mineral fiber insulation	Johns Manville
FiberGlass Roof Insulation	Glass fiber/Mineral fiber insulation	Generic

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	Olympic Lite-Deck	Carbon Steel CR-10 coanting insulation fastener for gypsum & CWF decks.		Olympic Manufacturing Group, Inc.
2.	Lite-Deck Plate	3" round galvalume AZ55 steel plate	3" round	Olympic Manufacturing Group, Inc.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Description	Date
Dynatech Engineering Corporation	#4530.05.95-1	TAS 114	05/31/95
Factory Mutual Research Corporation	IVOA7.AM	FM 4470	02/21/95
	1B4A7.AM	FM 4470	12/15/97
	4B4A9.AM	FM 4470	12/31/97
	0Y5A6.AM	FM 4470	09/08/97
	3D3A5.AM	FM 4470	09/15/98
	3004392	FM 4470	09/21/99
	3000637	FM 4470	4/26/00
	0D9A0.AM	FM 4470	05/02/00
	3004907	FM 4470	05/16/00
	3009117	FM 4470	12/21/00
	3010113	FM 4470	11/18/02
	3019046	FM 4470	03/04/05
	3021718	FM 4470	04/11/05
	3023724	FM 4470	07/20/05
Momentum Technologies, Inc.	EX22B7A	ASTM D 6162	04/11/07
	TX21G5A	ASTM D5147	04/25/06
	DX14C7A	ASTM D 6163	03/16/07
	EX11L5A	ASTM D 5147	03/19/07
	RX18C8A-R	ASTM D 6162/D6163	03/28/08
PRI Asphalt Technologies, Inc.	GRD-03-02-01	ASTM D5147	01/07/98
	GRD-05-02-01	ASTM D5147	12/18/97
	GRD-06-02-01	ASTM D5147	01/09/98
PRI Construction Materials Technologies	GRD-054-02-01	ASTM D 2626	11/17/11
	GRD-051-02-01	ASTM D 2178	10/28/11
	GRD-052-02-01	ASTM D 2178	10/28/11
Trinity | ERD	4533.05.98-1-R1	TAS 114(J)	09/09/11
	4544.11.06	TAS 114	11/02/06
	G32950.06.10	ASTM D4601	06/11/10
	G32700.09.11-1	ASTM D4601	09/16/11
	G39620.07.12	ASTM D4990	07/02/12
	G37200.10.12-1-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-2-R1	ASTM D6162/D4798	12/05/12
	G37200.10.12-3-R1	ASTM D6162/D4798	12/05/12
	G37200.10.12-4-R1	ASTM D6162	12/05/12
	G37200.10.12-5-R1	ASTM D6162	12/05/12
	G37200.10.12-6-R1	ASTM D6162/D4798	12/05/12
	G37200.10.12-7-R1	ASTM D6162	12/05/12
	G37200.10.12-9-R1	ASTM D6162/D4798	12/05/12
	G37200.10.12-10-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-11-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-12-R1	ASTM D6163/D4798	12/05/12
	G37200.10.12-13-R1	ASTM D6162	12/05/12
	G39630.07.12	Physical Properties	07/12/12

APPROVED ASSEMBLIES:

Membrane Type: SBS/SIS/SEBS

Deck Type 5I: Cementitious Wood Fiber, Insulated

Deck Description: Cementitious Wood Fiber

System Type B: Base layer of insulation mechanically fastened, optional top layer adhered with approved asphalt. Roof System fully adhered to insulation.

All General and System Limitations apply.

Base Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft^2
ENRGY 3, ENRGY 3 PSI-25, H-Shield Minimum 1.5" thick	1	1:4 ft²
ENRGY 3, ENRGY 3 PSI-25 Minimum 1.5" thick	1	1:2 ft²
ACFoam Composite Minimum 1.5" thick	1	1:4 ft²
Structodek High Density Fiberboard Roof Insulation Minimum 0.5" thick	1	1:4 ft²
Fesco Board Minimum 0.75" thick	1	1:2 ft²
(Standard or Wide Flute) Fiberglass Roof Insulation Minimum 0.5" thick	1	1:2 ft²

Note: Base layer shall be mechanically attached with fasteners and density described. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

Top Insulation Layer	Insulation Fasteners (Table 2)	Fastener Density/ft^2
High Density Roof Insulating Board Minimum 0.5" thick	N/A	N/A
Structodek High Density Fiberboard Roof Insulation Minimum 1.0" thick	N/A	N/A
Retro-Fit Minimum 0.5" thick	N/A	N/A
Fesco Board Minimum 0.75" thick	N/A	N/A
DensDeck, DensDeck Prime Minimum 0.25" thick	N/A	N/A

Note: Apply top layer of insulation shall be adhered with approved hot asphalt, within the EVT range and at a rate of 20-40 lbs/100 ft^2 or Type I or Type III Coal Tar at a rate of 30 lbs/100 ft^2. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Insulations listed as the base layer shall only be used as the base layer with a second layer of approved top layer insulation installed as the final membrane substrate.

System 1:	**Base/Ply Sheet:**	Three to five plies Viking TG IV, Viking TG VI or Viking Poly-Shield, adhered in full mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 30 lbs/sq.
System 2:	**Base/Ply Sheet:**	One ply Viking AOB, or Viking AB II adhered in full mopping of approved asphalt at a rate of 25 lbs/sq.
	Cap Sheet:	Two to four plies Viking TG IV, Viking TG VI or Viking Poly-Shield, adhered in full mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 30 lbs/sq.
Surfacing:		1. 400 lb./sq. gravel or 300 lb./sq. slag in a flood coat of approved mopping of Viking CTP or approved Type I or Type III Coal Tar Pitch at a rate of 70 lbs/sq.
Maximum Design Pressure:		-45.0 psf (See General Limitation # 9)

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE